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NPIC R-800/64

August 1964

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58 Pages

PHOTOGRAPHIC INTERPRETATION REPORT

OAK - PART II
MISSION 1009-2

9-13 AUGUST 1964

Declass Review by
NIMA/DOD



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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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GROUP 1
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MISSION 1009-2, 9-13 AUGUST 1964

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OAK - PART II

MISSION 1009-2

PREFACE

THIS IS THE SECOND AND LAST DAILY OAK REPORT ON MISSION 1009-2 DEALING WITH THE HIGHEST PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS 18 AUGUST 1964 TO 1200 HOURS, 19 AUGUST 1964 PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1009-2 ARE LISTED IN THE INDEX OF THIS REPORT.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT, AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATION OF TARGETS IN THIS REPORT IS INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA AND THE LETTER A PRECEDING FRAME NUMBERS INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMI-DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 1009-2 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL EQUIPMENT COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, FUTURE DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

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Highlights

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MISSION 1009-2, 9-13 AUGUST 1964

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25X1HIGHLIGHTS1. TYURATAM MISSILE TEST CENTER

THERE APPEARS TO BE A HIGHER THAN USUAL LEVEL OF ACTIVITY AT THE RANGEHEAD. PROBABLE MISSILE COMPONENTS ARE OBSERVED AT LAUNCH AREAS A1 AND C1, AND IN AN ERECTED POSITION AT E3. LAUNCH AREAS A3 AND B2 ARE CONFIRMED AS SILOS. LAUNCH PADS G5 AND G6 ARE CONFIRMED. CONSTRUCTION ACTIVITY BETWEEN G1-G2 AND G3-G4 IS NOW DESIGNATED AS PROBABLE LAUNCH AREA G8-G9. AN L-SHAPED ELECTRONIC DEVICE IS UNDER CONSTRUCTION AT COMPLEX I. SIX CYLINDRICAL STORAGE TANKS ARE UNDER CONSTRUCTION AT THE PROPELLANT PRODUCTION PLANT. TWO ADDITIONAL SA-2 SAM SITES HAVE BEEN IDENTIFIED.

2. SVOBODNYI ICBM COMPLEX

A COMMUNICATIONS SITE CONTAINING 4 HF FISHBONE RECEIVING ANTENNAS UNDER CONSTRUCTION, ONE HORIZONTAL DIPOLE, AND 2-3 PROBABLE DIPOLES HAS BEEN IDENTIFIED NE OF THE COMPLEX SUPPORT FACILITY.

4. NORILSK AIRFIELD

NEW AIRFIELD IDENTIFIED ON [REDACTED] APPEARS TO HAVE A COMPLETED AND SERVICEABLE RUNWAY.

5. CHIH-CHIN-HSIA, PROB NUC ENERGY COMPLEX

THE CONSTRUCTION OF THE PROBABLE REACTOR BUILDING IN THE EXCAVATED AREA HAS PROGRESSED. THE CENTER SECTION IS NOW ABOVE GROUND LEVEL. A POSSIBLE STACK, ALREADY OF CONSIDERABLE HEIGHT, IS UNDER CONSTRUCTION APPROXIMATELY 450 FT NORTH OF THE REACTOR BUILDING.

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6. NIKOLAYEV SHIPYARD NOSENKO 444 [REDACTED]
ONE LARGE POSSIBLE COMBATANT HULL, APPROXIMATELY 645 FT LONG
WITH A 110 FT BEAM AND UNLIKE ANY KNOWN SOVIET HULL DESIGN,
OBSERVED UNDER CONSTRUCTION ON BUILDING WAYS.

STATUS OF COMOR TARGET READOUT

A TOTAL OF 92 COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING
PERIOD AND ARE COVERED IN PART I AND PART II.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE
FOLLOWING TABLES ON SUCCEEDING PAGES.

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM DEPLOYMENT
TABLE 4 -- NUCLEAR ENERGY ACTIVITY
TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment

Complex	Launch Area											Total Soft Sites	Total Hard Sites	Total Launch Positions
	A	B	C	D	E	F	G	H	I	J	K			
Droynanaya	C	C	C	C	M	M						3	3	15
Gladkaya	(C)	(C)		(M)	(E)							2	2	10
Itatka	(C)	(C)	(C)									3		6
Kostroma	C	C	C	C	C	C	C	M				6	2	18
Kozel'-sk	C	C		C	C	L						3	2	12
Novosibirsk	C	C	L	C	C							3	2	12
Olovyannaya	C	L	L	E**									9	13
Omsk	C	E											2	6
Perm	(C)	C	C	C	C	L						5	1	15
Plesetsk*	C	C	C	C	C	M						9*	1	17
Shadrin'-sk	C	(C)	(L)										3	9
Stobodnyy	(C)	(C)	(C)	(C)	(C)	(C)	(L)	(C)				7	1	17
Teykovo	C	C	C	C	C	C						6		12
Tyumen	(C)		(C)									2		4
Verkhnyaya Salda	C	C	C	C	C	C	C	C	C			7	2	20
Yedrovo	(C)	(C)	C	(C)	C	(C)	C	M	(C)			6	3	21
Yushkar-Gila	C	C	C	C	C	C						6		12
Yurya	C	C	C	C	C	C	C	C	C	C	L	8	3	25
Zhangiz Tobe	(E)	(E)											2	2
Deployment Total												76	38	216
Tyuratam MTC												11 (1 prob)	8	35 (2 prob)
Grand Total												87 (1 prob)	46	251 (2 prob)

*Includes Launch Points HV, complete ** Carried as Launch Group
Construction Status* (C-complete, L-late, M-mid, E-early)

(C) Covered by current mission

() Newly identified

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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	121	11	16	11	161	633
Caucasus	3		2	3	6	29
Central Asia	2	4	1	5	12	43
Far Eastern	11	1		2	14	54
Totals	137	16	21	21	195	759

Totals do not include 45 fixed field-type sites with total of 182 clearings and one launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

		Country														
		USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Romania	Yugoslavia	China	North Korea	Indonesia	Egypt	Cuba	India	Totals
SA-0	SAM sites	13														13
SA-1		56														56
SA-2		916*	1	16	22	15	29	13	2	12	2	4	13*	24**	1	1,119
SA-3		93														93
SAM support facilities		183	1	2	5	3	5	3	1	1		3	6			217
Probable AMM complexes		3														3
AMM/SAM complexes		2***														2

*Does not include 4 alternate sites

***Includes 1 suspect complex.

**Does not include 22 abandoned sites.

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Table 1. AIRCRAFT ACTIVITY

Airfield	Last Coverage	Previous Significant Aircraft Count														Observed this Mission										
		BNVN	BLR	BLDER	BLNDER	BLVDER	MANURALE	WILLON	TODLER	FITTER	FANBERD	FANBERD	FANBERD	TUTULA	BNVN	BLR	BLDER	BLNDER	BLVDER	MANURALE	WILLON	TODLER	FITTER	FANBERD	FANBERD	TUTULA
Akhmatovskiy Yedimovskaya		2	24											31												
Belaya			55											35			37									37
Anadyr Leningrad																										
Anadyr Gromovskiy																										
Arkhangel'sk Khokhlov*																										
Artem North																										
Baranovskiy			23	4										31		22	11									30
Beers NB			9											9												
Belaya Tsvetkov		3	67			6								72		21	69									74
Bobruysk*			38											37			50									90
Bryansk*			17											11												
Bryansk*			55											55			381									53
Chepelokha*	2	34												64		31	30									34
Dolom*	4 B B													35												
Dovgalev Lake	34 B B													24												
Egorka*	31	9												24												
Gromy Prilutskiy		12	36											44		13	31									52
Kaliningrad		3												3		21	62									
Kaliningrad Province		61	252											33												
Komarovskiy Pli 120			27							201				20												
Kozlov A. C. Pli 22		7	21											24												
Mai Yast		6	2											9												
Melnyok		7	4											2	10											
Minsk Markul'skiy*																										0
Muravskiy		33												33												
Moscow Baranovskiy	8 B B	25**	7											42												
Muravskiy																										
Narva		25												16		24										24
Narva Kolkhoz		40												40												
Obukhovskiy																										
Obukhovskiy		10												10												
Obukhovskiy		62												42												
Obukhovskiy		31												31		301										30
Petrovskiy Yeliseyev																										
Poltava*		53*												53												
Prilutskiy		28												28		281										28
Romanovskiy West		20												24												
Ryazan' Dyagilev	3 B B	46												49												
Sak																										
Saravskiy		16												16												
Saravskiy		2												2												
Savitskiy	29 B B													29												
Savitskiy		27												27		51										23
Spassk-Dalniy East		311												31												
Stavitskiy		29												29												
Tarbo		24.1												24												
Ukrain*	41	24												69	42	26										64
Ukrain* Vozdvizhenka*		22								16				34												
Zhukovskiy Naryn*		2												2												
TOTALS	1009-2	27	45	54	99	3		14	74	4			2	1212	44	51	402	45								550

* POSSIBLE ** PROBABLE *** BADLY R. CASE I

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Table 6. Submarine Activity.

Base	Last Effective Coverage	Previous Submarine Count										Observed This Mission									
		SSBN, Pacific	SSBN, Atlantic	SSBN, Indian	SSBN, Mediterranean	SSBN, Arctic	SSBN, Baltic	SSBN, Black Sea	SSBN, Red Sea	SSBN, Persian Gulf	SSBN, Arabian Sea	SSBN, Indian	SSBN, Atlantic	SSBN, Pacific	SSBN, Indian	SSBN, Mediterranean	SSBN, Arctic	SSBN, Baltic	SSBN, Black Sea	SSBN, Red Sea	SSBN, Persian Gulf
Balakhova																					
Danay																					
Gorkiy																					
Khronstalt																					
Komsomol'sk																					
Leningrad																					
Livaya																					
Litva Bay																					
Magadan																					
Olenya Guba																					
Pechenga																					
Petrozavodsk																					
Kamchatka																					
Petrozavodsk																					
Polyarny																					
Riga																					
Rostov																					
Sayd Guba																					
Sevastopol																					
Severodvinsk																					
Severomorsk																					
Sovetskaya Gavan																					
Strelak Strait																					
Ura Guba																					
Vladimir																					
Vladivostok																					
Yokanga																					
TOTALS																					

*E: Class † POSSIBLE ‡ PROBABLE

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MISSILES

TYURATAM MISSILE TEST CENTER UR 4550N 06318E

CENTER COVERED BY GOOD QUALITY, CLOUD-FREE PHOTOGRAPHY. NO NEW LAUNCH CONSTRUCTION WORK HAS BEEN IDENTIFIED, BUT CONSTRUCTION HAS CONTINUED AT ALL UNFINISHED LAUNCH AREAS. THE PRESENCE OF VEHICLES/EQUIPMENT IN COMPLETED LAUNCH AREAS SUGGESTS A HIGHER THAN USUAL LEVEL OF ACTIVITY AT THE RANGEHEAD.

LAUNCH COMPLEX A (SITES 1 AND 15) -- LAUNCH AREA A3 IS A CONFIRMED SINGLE SILO. THE PREVIOUSLY REPORTED EXCAVATION CONTAINS A SILO 50 TO 60 FT SQUARE WITH A CIRCULAR OPENING APPROXIMATELY 30 FT IN DIAMETER. THE SILO HAS NOT YET BEEN BROUGHT UP TO GROUND LEVEL. A PROBABLE MISSILE COMPONENT APPROXIMATELY 105 FT LONG WITH TAPERED ENDS AND ON A RAIL CAR 170 FT LONG IS ON A RAIL LINE ADJACENT TO LAUNCH PAD A1. NO OTHER SIGNIFICANT CHANGE SINCE

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LAUNCH COMPLEX B (SITES 2, 16, AND 17) -- LAUNCH AREA B2 IS A CONFIRMED SINGLE SILO. THE SILO IS 50 TO 60 FT SQUARE WITH A CIRCULAR OPENING APPROXIMATELY 30 FT IN DIAMETER. THE SILO HAS NOT YET BEEN BROUGHT UP TO GROUND LEVEL. THE UNIDENTIFIED SECURED AREA LOCATED 5,500 FT NE OF LAUNCH AREA B1, WHICH WAS REPORTED IN OAK AND SUBSEQUENTLY DESIGNATED LAUNCH AREA B3, SHOWS NO SIGNIFICANT CHANGE SINCE THAT TIME. LAUNCH AREA B3 CONSISTS OF A LOOP ROAD WITH AN OVAL LAUNCH PAD. THE CONFIGURATION IS SIMILAR IN SIZE AND APPEARANCE TO LAUNCH PAD C3 AT COMPLEX C.

25X1

LAUNCH COMPLEX C (SITE 3) -- A PROBABLE MISSILE COMPONENT APPROXIMATELY 105 FT LONG IS IN A HORIZONTAL POSITION IN LINE WITH THE ERECTOR ON LAUNCH PAD C1.

LAUNCH COMPLEX D (SITES 4 AND 9) -- AT SITE D1 THE CENTER AND LEFT SILO DOORS ARE OPEN. AT LEAST 12 VEHICLES/EQUIPMENT ARE WITHIN THE SECURED AREA. SITE D2 IS STILL UNDER CONSTRUCTION. ALL 3 SILO DOORS ARE OPEN. ONE OF THE 2 READY BUILDINGS HAS BEEN EARTH MOUNDED.

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LAUNCH COMPLEX E (SITE 6) -- A PROBABLE MISSILE/ COMPONENT IS ERECTED ON PAD E3. AN UNIDENTIFIED OBJECT APPROXIMATELY 90 FT LONG IS POSITIONED ADJACENT TO THE WEST END OF THE READY BUILDING SERVING PAD E1.

LAUNCH COMPLEX F (SITE 5) -- INCREASED TRACK ACTIVITY BETWEEN COMPLEX F AND K INDICATES THE SUPPORT FACILITIES AT COMPLEX F ARE BEING UTILIZED IN THE CONSTRUCTION OF COMPLEX K.

LAUNCH COMPLEX G (SITES 7, 11, AND 12) -- TWO NEW PARALLEL DITCHES ARE LOCATED TO THE REAR OF PADS G1 AND G2. AN UNIDENTIFIED RAIL CAR ABOUT 50 FT LONG IS LOCATED ON THE RAIL BETWEEN PAD G2 AND THE READY BUILDING. THE GANTRY BEHIND G3 IS COMPLETE. BOTH LAUNCH PADS HAVE CIRCULAR HOLES IN THEIR CENTERS, AND BLAST DEFLECTION PITS TO THE SIDES. A LARGE EXCAVATION TO THE REAR OF THE LAUNCH AREA HAS BEEN ENLARGED SINCE [REDACTED]. TWO LAUNCH PADS, G5 AND G6, APPROXIMATELY 650 FT APART, HAVE BEEN IDENTIFIED. THE AREA IS SECURED AND CONTAINS A LOOP ROAD SYSTEM AND 2 RECTANGULAR PADS, WITH AN EARTH-MOUNDED STRUCTURE INBOARD OF EACH PAD. PROBABLE GANTRY TRACKS UNDER CONSTRUCTION AND APPROXIMATELY 45 FT APART EXTEND FROM THE REAR OF EACH PAD AND LEAD TOWARD A POINT AT THE REAR OF PAD G6. AT G7 CONSTRUCTION CONTINUES ON THE SILO. A NEW BUILDING HAS BEEN ADDED PARALLEL TO THE ACCESS ROAD SERVING THE SILO AND 2 NEW SHALLOW EXCAVATIONS ARE LOCATED ON EITHER SIDE OF THE ACCESS ROAD. THE CONSTRUCTION ACTIVITY BETWEEN G1-G2 AND G3-G4 HAS BEEN IDENTIFIED. THIS AREA IS NOW DESIGNATED AS PROBABLE LAUNCH AREA G8-G9. CONSTRUCTION CONTINUES. A PARTIAL LOOP ROAD PATTERN SIMILAR TO THE ONE AT G5-G6 IS EVIDENT. THE PARTIAL LOOP ROAD PATTERN, THE BUILDING PATTERN, AND CONSTRUCTION ACTIVITY IN THE AREA INDICATE THIS AREA WILL BE VERY SIMILAR TO LAUNCH AREA G5-G6. AT THE COMPLEX SUPPORT FACILITY CONSTRUCTION CONTINUES ON THE SECOND MISSILE ASSEMBLY/CHECKOUT BUILDING. A LOOP ROAD PATTERN HAS BEEN ADDED IN THE UNIDENTIFIED FACILITY ON THE WEST SIDE OF THE ACCESS ROAD SERVING LAUNCH AREA G1-G2. THERE IS NO SIGNIFICANT CHANGE IN THE REVETTED STORAGE AREA [REDACTED]

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SINCE [REDACTED]

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COMPLEX H (SITE 8) -- NO APPARENT CHANGE IN FACILITIES

COMPLEX I (SITE 14) -- CONSTRUCTION CONTINUES ON THE SILO. THE EXCAVATION NOW CONTAINS A 50 BY 50 FT SILO WITH A HOLE APPROXIMATELY 25 FT IN DIAMETER. THE SILO HAS NOT YET BEEN BROUGHT UP TO GROUND LEVEL. AN L-SHAPED ELECTRONICS DEVICE WITH LEGS APPROXIMATELY 1.280 FT LONG IS UNDER CONSTRUCTION INSIDE THE SE CORNER OF THE LAUNCH AREA.

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COMPLEX J -- CONSTRUCTION CONTINUES THROUGHOUT THE COMPLEX. VERTICAL AND LONGITUDINAL MEMBERS HAVE BEEN ADDED TO THE MASSIVE BUILDINGS UNDER CONSTRUCTION. THE ROAD AND RAIL HAVE NOT BEEN EXTENDED SINCE.

25X9

COMPLEX K (SITE 13) -- CONSTRUCTION CONTINUES IN THE LAUNCH AREA AND ELECTRONIC FACILITY. THE SILOS MEASURE ABOUT 50 FT SQUARE WITH AN APPROXIMATELY 30 FT DIAMETER OPENING. THE SILOS HAVE NOT YET BEEN BROUGHT UP TO GROUND LEVEL. THE REPORTED PROBABLE BUILDING PARALLEL TO THE COMPLEX MAIN ROAD IS NOW COMPLETE. A NEW DITCH PARALLELS THE COMPLEX MAIN ROAD AND CONNECTS THE LAUNCH AREA AND THE ELECTRONIC FACILITY.

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PROPELLANT PRODUCTION PLANT -- SIX CYLINDRICAL STORAGE TANKS ARE UNDER CONSTRUCTION AT THE END OF THE RAIL SPUR BRANCHING WEST FROM THE MAIN RAIL LINE. A RECTANGULAR EXCAVATION AND 3 SMALL BUILDINGS ARE NEARBY. THERE WAS NO EVIDENCE OF THIS ACTIVITY ON

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MAIN SUPPORT BASE -- NO SIGNIFICANT CHANGE SINCE

SAM SITES -- TWO ADDITIONAL SA-2 SAM SITES (SEE MISSILE BONUS 1 AND 2) HAVE BEEN IDENTIFIED 0.5 NM NORTH OF TYURATAM SAM SITE B26 AND 0.4 NM SOUTH OF TYURATAM SAM SITE B26. THE NORTHERNMOST SITE IS UNREVETTED AND UNDER CONSTRUCTION, WHILE THE

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SOUTHERNMOST SITE IS REVETTED AND COMPLETE. THIS
MAKES A TOTAL OF FIVE SITES WITHIN A ONE SQ NM AREA.

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(ATTACHMENTS 1-13)

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SVOBODNYY ICBM COMPLEX UR 5146N 12807E

ENTIRE COMPLEX IS COVERED BY GOOD QUALITY STEREO
PHOTOGRAPHY. LAUNCH AREA G (SITE 7) REMAINS IN A
LATE STAGE OF CONSTRUCTION. LAUNCH AREA C (SITE 2)
APPEARS TO HAVE A MISSILE ERECTED ON EACH PAD
(THESE SAME PADS ALSO APPEARED TO HAVE ERECTED
MISSILES ON MISSIONS

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NO SIGNIFICANT CHANGES IN THE COMPLEX SUPPORT
FACILITY, THE RAIL-TO-ROAD TRANSFER POINT,
LAUNCH AREA A (SITE 3), B (SITE 1), D (SITE 4),
E (SITE 6), F (SITE 5), OR H (SITE 8), OR THE
UNIDENTIFIED ACTIVITY BETWEEN LAUNCH AREA E AND G.

25X9

A COMMUNICATIONS SITE HAS BEEN IDENTIFIED 3 NM NE
OF THE COMPLEX SUPPORT FACILITY. IT CONTAINS 4 HF
FISHBONE RECEIVING ANTENNAS UNDER CONSTRUCTION,
ONE HORIZONTAL DIPOLE, AND 2-3 PROBABLE DIPOLES.
ACTIVITY WAS OBSERVED IN THIS AREA AS EARLY AS MISSION

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A POSSIBLE ELECTRONIC FACILITY HAS BEEN IDENTIFIED ADJACENT TO THE NORTHERN SIDE OF THE RAIL-TO-ROAD TRANSFER POINT. IT CONSISTS OF A T-SHAPED EARTH SCAR. AT THE END OF EACH SCAR IS AN UNIDENTIFIED OBJECT, APPROXIMATELY EQUIDISTANT FROM THE CROSS OF THE T-SHAPED SCAR. THESE OBJECTS ARE INTERCONNECTED BY POSSIBLE CABLES. THIS FACILITY WAS PRESENT ON PHOTOGRAPHY AS EARLY AS MISSION

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SEVERAL BUILDINGS UNDER CONSTRUCTION AND GROUND SCARRING ARE APPARENT ONE NM SE OF THE COMPLEX SUPPORT FACILITY. ACTIVITY HAS BEEN OBSERVED AT THIS ROAD-SERVED FACILITY SINCE MISSION

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NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS SEARCH AREA.

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ITATKA ICBM COMPLEX UR 5650N 08536E

THE ITATKA ICBM COMPLEX IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGES ARE OBSERVED AT THE COMPLEX SUPPORT FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, LAUNCH AREA A (SITE 1), B (SITE 2), OR THE UNIDENTIFIED AREA EAST OF THE COMPLEX SUPPORT FACILITY SINCE MISSION

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AT LAUNCH AREA C (SITE 3) THERE HAS BEEN NO SIGNIFICANT CHANGE IN THE LAUNCH SITE, BUT SOME CONSTRUCTION ACTIVITY IS APPARENT IN THE SITE SUPPORT FACILITY.

NO OTHER CONSTRUCTION ACTIVITY OBSERVED AT THE COMPLEX.

NO ABM ACTIVITY NOTED WITHIN A 50-NM RADIUS.

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25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1

25X1

25X1

25X1

PERM ICBM COMPLEX UR 5742N 05619E

IDENTIFICATION ONLY OF THE COMPLEX SUPPORT FACILITY AND LAUNCH AREA A (SITE 1). THE REST OF THE COMPLEX IS COMPLETELY CLOUD COVERED.

NO ABM ACTIVITY OBSERVED WITHIN THE 50-NM RADIUS SEARCH AREA, WHICH IS 75 PERCENT CLOUD-COVERED.

25X1

YEDROVO ICBM COMPLEX UR 5751N 03341E

THE YEDROVO ICBM COMPLEX IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGES OBSERVED AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, OR LAUNCH AREAS A (SITE 2), B (SITE 1), D (SITE 4), F (SITE 6), AND I (SITE 3). ONLY PORTIONS OF THE SITE SUPPORT FACILITIES WERE CLOUD FREE AT LAUNCH AREAS C (SITE 5), H (SITE 9), AND G (SITE 7). LAUNCH AREA E (SITE 8) WAS CLOUD COVERED.

25X9

25X9

IT CONSISTS OF A LOOP ROAD WITH DRIVE-THROUGH, EARTH-MOUNDED BUILDING, SEVERAL ADMINISTRATION/HOUSING BUILDINGS, AND A SMALL VEHICLE/EQUIPMENT PARK. FIRST EVIDENCE OF THIS FACILITY WAS ON BUT POOR QUALITY PHOTOGRAPHY PRECLUDED IDENTIFICATION UNTIL NO NEW CONSTRUCTION ACTIVITY OBSERVED WITHIN THE COMPLEX.

25X1

25X1

NO ABM ACTIVITY OBSERVED WITHIN THE CLOUD-FREE PORTIONS OF THE 50-NM RADIUS SEARCH AREA.

25X1

19

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

GLADKAYA ICBM COMPLEX UR 5605N 09213E

THE COMPLEX WAS COVERED BY FAIR QUALITY, PARTIAL STEREO PHOTOGRAPHY.

THE COMPLEX SUPPORT FACILITY, LAUNCH AREAS B (SITE 2) AND D (SITE 5), AND RAIL-TO-ROAD TRANSFER POINT ARE IDENTIFIED ONLY.

NO SIGNIFICANT CHANGES OBSERVED AT LAUNCH AREA A (SITE 3). LAUNCH AREA E (SITE 6) REMAINS IN THE EARLY STAGE OF CONSTRUCTION AND POSSIBLE CONSTRUCTION ACTIVITY WAS OBSERVED AT THE CLEARINGS FOR THE 2 MISSILE-READY BUILDINGS

25X9

25X9

NO NEW CONSTRUCTION ACTIVITY OBSERVED WITHIN CLOUD-FREE AREAS OF THE COMPLEX.

NO ABM ACTIVITY OBSERVED WITHIN CLOUD-FREE PORTIONS OF THE 50-NM RADIUS SEARCH AREA.

25X1

25X1

ZHANGIZ-TOBE ICBM COMPLEX UR 4912N 08110E

COMPLEX COVERED BY HEAVY CLOUDS AND HAZE. IDENTIFICATION ONLY FOR LAUNCH AREAS A (SITE 1) AND B (SITE 2). COMPLEX SUPPORT FACILITY AND POSSIBLE RAIL-TO-ROAD TRANSFER POINT ARE CLOUD COVERED.

NO ADDITIONAL SSM ACTIVITY OR ABM ACTIVITY OBSERVED. ONLY 10 PERCENT OF 50-NM RADIUS SEARCH AREA VISIBLE DUE TO CLOUD COVER AND LACK OF PHOTOGRAPHIC COVERAGE.

25X1

25X1

YELSK MRBM LAUNCH SITE 1 UR 5142N 02912E

NO NEW SSM ACTIVITY OBSERVED IN 25-NM RADIUS SEARCH AREA. SCATTERED CLOUDS PRECLUDE NEGATION

20

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

OF SEARCH AREA.

25X1

PETRIKOV MRBM LAUNCH SITE UR 5210N 02834E

NO HARD SITE OBSERVED WITHIN 25-NM RADIUS. WESTERN
SECTOR IS ONLY 40 PERCENT COVERED AND SCATTERED
CLOUDS LIMIT INTERPRETATION OF REMAINING SEARCH AREA.

25X1

SEMOVKA IRBM LAUNCH SITE 2 UR 4753N 03057E
IDENTIFICATION ONLY.

25X1

KISHENTSY MRBM LAUNCH SITE UR 4900N 03013E

NO APPARENT CHANGE SINCE

25X1

NO NEW SSM ACTIVITY OR EVIDENCE OF NUCLEAR WARHEAD
FACILITY OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH
AREA.

25X1

UKA/PESCHANY MISSILE TRACKING STATION UR 5756N 16201E

THE PRIMARY MISSILE TRACKING STATION (SITE A) WAS
NOT COVERED, HOWEVER, THE FOLLOWING ASSOCIATED SITES
WERE OBSERVED.

SITE B APPEARS ACTIVE, HOWEVER, POOR IMAGE QUALITY
AND HAZE PRECLUDE DETAILED INTERPRETATION.

25X1

25X1

SITE C -- NO APPARENT CHANGE SINCE
POOR IMAGE QUALITY PRECLUDES DETAILED
INTERPRETATION.

21

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

SITE G -- APPEARS ACTIVE. NO EQUIPMENT CAN BE IDENTIFIED DUE TO SMALL SCALE.

25X1

PORTIONS OF THE KAMCHATKA IMPACT AREA OBSERVED THROUGH SCATTERED CLOUDS. NO NEW CRATERS VISIBLE SINCE [REDACTED] IN THE CLOUD-FREE AREAS.

ASSOCIATED SITES D, E, AND F NOT COVERED.

25X1

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED]

25X1

SITE B -- [REDACTED]

SITE C -- [REDACTED]

25X1

SITE G -- [REDACTED]

25X1

IMPACT AREA -- [REDACTED]

25X1

[REDACTED] SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

25X1

MOST FACILITIES ARE COVERED AT LEAST PARTIALLY ALTHOUGH INTERPRETATION IS LIMITED BY CLOUDS, HAZE, AND CLOUD SHADOW. INSTRUMENTATION SITES 5, 6, 7, 8, AND 11, AND POSSIBLE INSTRUMENTATION SITES 14 AND 15 ARE NOT COVERED. ALL FACILITIES COMPRISING LAUNCH COMPLEX A [REDACTED] ARE OBSERVED ON NON-STEREO PHOTOGRAPHY WITH NO SIGNIFICANT CHANGE NOTED AT LAUNCH SITES 5 AND 6, ELECTRONIC SITE C, AND THE MISSILE STORAGE AND CHECKOUT AREA. NO SIGNIFICANT CHANGES ARE VISIBLE IN FACILITIES OR EQUIPMENT AT LAUNCH SITES 1 AND 2 AND ELECTRONIC SITE A. AT LAUNCH SITES 3 AND 4 THE TWO 50- BY 20-FT OBJECTS REMAIN, AS WELL AS THE TOWER-LIKE STRUCTURE NEAR SITE 3. THE PREPARED CIRCULAR PAD NEAR POSITION 6 AT SITE 3, FIRST OBSERVED ON [REDACTED] APPARENTLY HAS BEEN EXTENDED BY A PREPARED LINEAR STRIP TO MEET THE ACCESS ROAD TO POSITION 6 SINCE [REDACTED]

25X1

25X1

25X1

22

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
ZON

25X1

LAUNCH COMPLEX B [REDACTED] IS IDENTIFIED ONLY. NO CHANGE APPARENT IN THE SUPPORT AREA. AT SITE 13, VISIBLE THROUGH HEAVY HAZE, WHAT APPEARS TO BE THE ANTENNA FACE ON BOTH HEN HOUSE-TYPE STRUCTURES AT THE CENTRAL SITE IS DARK IN TONE. THE PROBABLE OPEN STORAGE PREVIOUSLY NOTED ALONG A ROAD JUST WEST OF THESE STRUCTURES HAS CONTINUED TO INCREASE SINCE [REDACTED] EQUIPMENT IS NOTED ON THE ROOF OF THE 4 BUILDINGS COMPRISING THE 2 TRACKING STATIONS AT INSTRUMENTATION SITE 1. BLACKTOPPING OF THE ROADS IN THE VICINITY OF THESE BUILDINGS CONTINUES. THE ROAD REPORTED UNDER CONSTRUCTION ON [REDACTED] WEST FROM THE COASTAL ROAD CONNECTING SITES 1 AND 2 HAS BEEN EXTENDED AS FAR WEST AS THE COASTAL RAILROAD.

25X1

25X1

NO SIGNIFICANT CHANGE IS NOTED AT THE MAIN HOUSING COMPLEX, THE AIRFIELD, DIRT STRIP, HEN HOUSE ANTENNA, HEN ROOST ANTENNAS, SAM TRAINING SITE, AND INSTRUMENTATION SITES 2, 3, 4, 9, 10, AND 12.

25X1

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED] ARE AS FOLLOWS --

25X1

LAUNCH COMPLEX A -- [REDACTED]
LAUNCH COMPLEX B -- [REDACTED]
SITE 13 -- [REDACTED]
INSTRUMENTATION SITE 1 -- [REDACTED]
INSTRUMENTATION SITE 2 -- [REDACTED]
INSTRUMENTATION SITE 3 -- [REDACTED]
INSTRUMENTATION SITE 10 -- [REDACTED]
HEN HOUSE ANTENNA -- [REDACTED]
MAIN HOUSING COMPLEX -- [REDACTED]

25X1

25X1

25X1

25X1

25X1

WU-WEI SUSPECT GM ACTIVITY CH 3758N 10253E

25X1

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [REDACTED] NO MISSILE-RELATED ACTIVITY OBSERVED IN 25-NM RADIUS SEARCH AREA. SEARCH AREA APPROXIMATELY 70 PERCENT COVERED BY CLOUD-FREE PHOTOGRAPHY.

25X1

23

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1

25X1

EMBA MISSILE-ASSOCIATED INSTALLATION UR 4835N 05804E

INSTALLATION, EXCEPT FOR INSTRUMENTATION SITES 8 AND 9, IS COVERED BY FAIR QUALITY PHOTOGRAPHY WITH ONLY SCATTERED CLOUDS. NEW ACTIVITY IS EVIDENT IN THE OPERATIONAL SUPPORT AREA, WHICH IS BEING EXPANDED TO THE WEST. THREE NEW BUILDINGS, INCLUDING ONE UNDER CONSTRUCTION, HAVE BEEN ADDED SINCE [REDACTED] AND CONSTRUCTION GROUND SCARRING IS EVIDENT. AT LEAST 23 UNIDENTIFIED AIRCRAFT AND ONE HELICOPTER ARE PARKED AT THE AIRFIELD.

25X1

THE FOLLOWING FACILITIES SHOW NO APPARENT CHANGE SINCE [REDACTED] -- TOWN OF EMBA, THE LANDING STRIP (NEWLY IDENTIFIED ON [REDACTED]), SUPPORT AREAS A AND B, THE POSSIBLE NEAR SPACE TRACKING AND TELEMETRY INSTALLATION (SEE [REDACTED]), THE PROBABLE LAUNCH AREA, AND INSTRUMENTATION SITES 1-7, 10, AND 11.

25X1

25X1

25X1

25X1

25X1

SHUANG-CHENG-TZU 350 NM IMPACT AREA CH 4024N 09225E

AREA APPROXIMATELY 85 PERCENT CLOUD FREE. NO ACTIVITY AND NO EVIDENCE OF MISSILE IMPACT AREA, INSTRUMENTATION, COMMUNICATIONS, OR SUPPORT FACILITIES WITHIN SEARCH AREA.

25X1

25X1

SHUANG-CHENG-TZU 650 NM IMPACT AREA CH 4041N 08600E

ONLY WESTERN HALF OF SEARCH AREA COVERED ON CLEAR PHOTOGRAPHY. NO EVIDENCE OF MISSILE IMPACT AREA, INSTRUMENTATION, COMMUNICATIONS, OR SUPPORT FACILITIES, AND NO IDENTIFIABLE TRANSPORT ROUTES.

24

TOP SECRET

25X1
25X1

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

25X1

DZUNGARIAN SUSPECT MISSILE SUPPORT AREA CH 4615N 08710E

ABOUT 40 PERCENT OF NW QUADRANT OF SEARCH AREA COVERED. NO EVIDENCE OF MISSILE IMPACT AREAS OR INSTRUMENTATION OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH AREA.

25X1

25X1

PERM ROCKET ENGINE TEST FACILITY UR 5801N 05634E

RAIL-SERVED, SECURED, ROCKET ENGINE TEST FACILITY IN WOODED AREA CONSISTS OF A VERTICAL TEST STAND SIMILAR TO THE ONE AT KRASNOYARSK ROCKET ENGINE TEST FACILITY, A CHECKOUT BUILDING, A CONTROL/OBSERVATION BUILDING, STORAGE AND WAREHOUSE AREAS, FUEL STORAGE AREA, AND NUMEROUS SUPPORT BUILDINGS.

CONSTRUCTION ACTIVITY IN THE CENTRAL PART SUGGEST EXPANSION OF THE FACILITIES. EARTH SCARRING SW OF THE INNER WALL AND FENCE INDICATES THAT THE FACILITY WILL BE EXPANDED. NEW CONSTRUCTION NORTH OF THE FUEL STORAGE AREA IS EVIDENT.

EXTREME NE PART OF FACILITY IS CLOUD COVERED.

(ATTACHMENT 14)

25X1

25X1

MAKINSK SUSPECT SSM AREA UR 5234N 07026E

NO SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS WITHIN 50 NM OF MAKINSK.

25X1

25

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1

25X1
25X1
25X1

SEVERNYY SUSPECT SSM AREA UR 6845N 06430E

SOUTHWESTERN PORTION OF SEARCH AREA NOT COVERED. REMAINDER OF SEARCH AREA COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY. NO SSM ACTIVITY OBSERVED.

25X1

ROMNY SUSPECT SSM AREA UR 5044N 03328E

ONLY THE WESTERN HALF OF THE 50-NM SEARCH AREA WAS COVERED BY OBLIQUE PHOTOGRAPHY. THE PHOTOGRAPHED PORTION IS APPROXIMATELY 50 PERCENT CLOUD COVERED. NO SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS. FACILITY PREVIOUSLY REPORTED AT 50-02N 033-07E IS CLOUD COVERED.

25X1

BRATSK, SUSPECT ABM AREA UR 5654N 10030E

NO AMM-RELATED FACILITIES OR UNUSUAL CONSTRUCTION ACTIVITY OBSERVED IN THE CLOUD-FREE PORTIONS OF THE SEARCH AREA. AREA IS 30 PERCENT CLOUD COVERED.

25X1

BONUS 1 TYURATAM MSL TEST CENTER SAM SITE B26D-2 UR 4552N 06301E

A NEWLY IDENTIFIED SA-2 SAM SITE UNDER CONSTRUCTION IS LOCATED 0.5 NM NORTH OF TYURATAM SAM SITE B26 AT 45-52-10N 063-01-50E.

25X1

26

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
ZSAI

BONUS 2 TYURATAM MSL TEST CENTER SAM SITE B26C-2 UR 4551N 06302E

**A NEWLY IDENTIFIED SA-2 SAM SITE IS LOCATED
0.4 NM SOUTH OF TYURATAM SAM SITE B26 AT 45-51-40N
063-02-00E.**

25X1



TOP SECRET

27

25X1

25X1

**Air
Facilities**

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

AIR FACILITIES

CHEPELEVKA AIRFIELD UR 4947N 03026E

AIRCRAFT -- 2 PROBABLE BISON, 3 BEAR, AND APPROXIMATELY 16 UNIDENTIFIED SMALL POSSIBLE AIRCRAFT IN LOADING AREA. THREE BEAR AND 2 POSSIBLE BEAR/BISON ON SSW PARKING APRON. TWO BEAR, 2 BEAR/BISON, AND 5 HEAVY SWEEP-WING ON CENTER HARDSTANDS. SIX BEAR ON MAIN PARKING APRON. FOUR BEAR ON HARDSTANDS ACROSS FROM MAIN PARKING APRON. SEVEN BEAR ON NNE HARDSTANDS. ONE BEAR ON GRASS AT NNE END OF FIELD. ONE PROBABLE BULL AND ONE LIGHT STRAIGHT-WING ON ALERT APRON AT NORTH END OF RUNWAY. TWO PROBABLE CAB, ONE LIGHT STRAIGHT-WING, AND ONE SMALL STRAIGHT-WING ON GRASS AT NORTH END OF FIELD.

HAZE AND SCATTERED CLOUDS PARTIALLY OBSCURE CENTER HARDSTANDS.

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

25X1

25X1

UKRAINA AIRFIELD UR 5110N 12826E

NO NEW FACILITIES OBSERVED.

AIRCRAFT -- 42 BISON (18 ON EAST LOADING STANDS, 14 ON SE PARKING RAMP, 2 ON NW HARDSTANDS, AND 8 ON WEST HARDSTANDS), 2 UNIDENTIFIED MEDIUM SWEEP-WING EAST OF WEST CENTRAL PARKING AREA, ONE UNIDENTIFIED LIGHT SWEEP-WING ON SE PARKING RAMP, 26 BADGER ON WEST HARDSTANDS, 3 LIGHT STRAIGHT-WING WEST OF TAXIWAY IN MAINTENANCE AREA, AND ONE CAB OUTSIDE SECURITY FENCE AREA.

25X9

25X1

28

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1

25X1
25X1
25X1

NORILSK AIRFIELD UR 6919N 08756E

NORILSK AIRFIELD AND NORILSK NW AIRFIELD ARE NOT OBSERVED DUE TO SCATTERED CLOUDS. NEW AIRFIELD IDENTIFIED ON [REDACTED] 6 NM WEST OF NORILSK AT 69-18N 087-23E APPEARS TO HAVE A COMPLETED 6,000 X 150 FT NE/SW SERVICEABLE CONCRETE RUNWAY.

25X1

AIRCRAFT -- ONE LIGHT STRAIGHT-WING TRANSPORT.

25X1

PRILUKI AIRFIELD UR 5034N 03219E

AIRCRAFT -- 29 PROBABLE BADGER ON PARKING APRON AND 6 POSSIBLE BEAGLE AND 3 SMALL UNIDENTIFIED AIRCRAFT [REDACTED]

25X9

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

25X1

BELAYA TSERKOV AIRFIELD UR 4947N 03001E

AIRCRAFT -- 67 BADGER ON HARDSTANDS AND GRASS ALONG EDGE OF LOOP TAXIWAY, 2 BADGER IN MAINTENANCE AREA, AND 2 BEAR AND 3 PROBABLE BEAR ON HARDSTANDS AT NE END OF FIELD.

25X1

NEZHIN AIRFIELD UR 5105N 03152E

AIRCRAFT -- 28 BADGER AND ONE SMALL STRAIGHT-WING ON HARDSTANDS SOUTH OF RUNWAY.

25X1

IRKUTSK AIRFIELD NORTHWEST UR 5222N 10411E

NO AIRCRAFT OBSERVED IN CLOUD-FREE PORTIONS.

29

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

25X1

WU-KUNG AIRFIELD CH 3417N 10815E

AIRCRAFT -- 13 PROBABLE BULL AND ONE BADGER.

CONSTRUCTION WORK AT AIRCRAFT PLANT SOUTH OF THE
FIELD CONTINUES. THERE ARE POSSIBLY THREE MAJOR
BUILDINGS STILL UNDER CONSTRUCTION. NO POSITIVE
INDICATIONS OF PRODUCTION AT THIS TIME.

25X1

30

TOP SECRET

25X1
25X1



**Nuclear
Energy**

Page Denied

Next 3 Page(s) In Document Denied

**Naval
Activity/
Ports**

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

NAVAL ACTIVITY/PORTS

[] NIKOLAYEV SHIPYARD NOSENKO 444 UR 4657N 03159E

VESSELS -- ONE LARGE MERCHANT SHIP, ONE LARGE POSSIBLE AUXILIARY, 2 POSSIBLE FISH FACTORY SHIPS, AND 2 MERCHANT VESSELS IN MAIN BASIN. ONE POSSIBLE DLG, APPROXIMATELY 490 FT OVERALL, IN FITTING OUT SLIP. ONE PROBABLE POLTAVA-CLASS HULL, 2 SMALL UNIDENTIFIED VESSELS, AND ONE LARGE POSSIBLE COMBATANT HULL, APPROXIMATELY 645 FT WITH APPROXIMATELY 110 FT BEAM, OBSERVED UNDER CONSTRUCTION ON BUILDING WAYS. HULL CONFIGURATION OF LARGE POSSIBLE COMBATANT DOES NOT CONFORM TO ANY KNOWN SOVIET HULL DESIGN.

25X1

NO APPARENT CHANGE IN FACILITIES SINCE []

25X1

NO SHORE-BASED SUBMARINE FACILITIES OBSERVED.

25X1

(ATTACHMENT 16)

25X1

[] NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR 4659N 03201E

25X1

NO SIGNIFICANT CHANGE IN FACILITIES SINCE MISSION [] EXCEPT FOR NEW FABRICATION SHOP ON NORTH SIDE OF RIVER, WHICH HAS BEEN COMPLETED SINCE []

25X1

VESSELS -- ONE UNIDENTIFIED VESSEL UNDER CONSTRUCTION ON BUILDING WAY, ONE DD APPROXIMATELY 390 FT OVERALL MOORED STERN TO QUAY, ONE LARGE DDG APPROXIMATELY 490 FT OVERALL IN FLOATING DRYDOCK, AND 2 LARGE AND 3 SMALLER MERCHANT SHIPS ALONG QUAY.

NO SHORE-BASED SUBMARINE FACILITIES OBSERVED.

25X1

35

TOP SECRET

25X1
25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1

25X1

KERCH NVL BASE & SHPYD KAMYSH BURUN 532 UR 4516N 03625E
ATMOSPHERIC CONDITIONS PRECLUDE IDENTIFICATION
AND COUNT OF VESSELS UNDER CONSTRUCTION.

NO APPARENT CHANGE IN FACILITIES SINCE

25X1

25X1

KHERSON SHIPYARD UR 4636N 03235E

25X1

NO APPARENT CHANGE IN FACILITIES SINCE

VESSELS -- TWO 535 X 70 FT AND ONE 555 X 70 FT CARGO
VESSEL ON BUILDING WAYS, ONE 535 X 70 FT AND ONE
555 X 80 FT CARGO VESSEL IN THE FITTING OUT BASIN.

25X1

25X1

36

TOP SECRET

25X1

25X1

**Electronics/
Communications**

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1
25X1

25X1

ELECTRONICS/COMMUNICATIONS

LAPICHI HF RDO RELAY & MF BROADCAST STN UR 5325N 02831E
NO APPARENT CHANGE SINCE

25X1

25X1

TALSI, SUSPECT SATELLITE TRACKING STN UR 5717N 02235E

ONLY ONE OF THE TWO INTERFEROMETERS OBSERVED THROUGH CLOUDS. CONSTRUCTION APPEARS TO CONTINUE. THE VISIBLE INTERFEROMETER NOW APPEARS TO BE MODIFIED FROM THE TYPICAL PLUS CONFIGURATION. THE MODIFICATION CONSISTS OF A LINEAR GROUND SCAR EXTENSION OF THE EAST/WEST LEGS TO APPROXIMATELY 9,860 FT IN EACH DIRECTION. IT APPEARS THAT THE NORTH/SOUTH LEGS ARE BEING EXTENDED, HOWEVER, SCATTERED CLOUDS PRECLUDE DETAILED INTERPRETATION. THE MODIFICATION TO THE EAST/WEST LEGS WAS NOT DISCERNIBLE ON PREVIOUS COVERAGE.

25X1

25X1

EMBA MISSILE TRACKING FACILITY UR 4836N 05809E

25X1

NO APPARENT CHANGE IN FACILITIES SINCE MISSION
EXCEPT THAT OVERSIZE PAD IS NOW
VACANT. NO COUNT OF VEHICLES WITHIN THE FACILITY
CAN BE MADE.

25X1

37

TOP SECRET

25X1
25X1

**Military
Activity**

[REDACTED] **TOP SECRET** [REDACTED]

MISSION 1009-2, 9-13 AUGUST 1964

[REDACTED]
NPIC/R-800/64

25X1
25X1

25X1

MILITARY ACTIVITY

[REDACTED] TU-KO-MA-CHING ARTILLERY TESTING RANGE CH 4051N 10941E

NO SIGNIFICANT ACTIVITY OR CONSTRUCTION OBSERVED.

NO CRATERS OBSERVED IN IMPACT AREA.

25X1

UNIDENTIFIED ACTIVITY NORTH OF TU-KO-MA-CHING
IDENTIFIED ON [REDACTED] APPEARS TO BE
MINING ACTIVITY.

25X1

[REDACTED] 25X1

[REDACTED] SHAN-SHEN-FU ARMY BARRACKS SOUTHEAST CH 5010N 12712E

NO NEW CONSTRUCTION, VEHICLES, EQUIPMENT, OR
CAMOUFLAGE OBSERVED.

AREA APPEARS ACTIVE AND OCCUPIED.

TARGET COVERED BY 100 PERCENT CLEAR PHOTOGRAPHY.

25X1

38
TOP SECRET [REDACTED]

[REDACTED] 25X1

25X1

Complexes



[REDACTED] **TOP SECRET** [REDACTED]

MISSION 1009-2, 9-13 AUGUST 1964

[REDACTED]
NPIC/R-800/64

25X1
25X1

25X1

COMPLEXES

HSI-AN COMPLEX CH 3417N 10857E

NO ACTIVITY OBSERVED AT MAJOR INDUSTRIAL FACILITIES.
NO STACKS EMITTING SMOKE. APPROXIMATELY 100 RAIL
CARS OF UNDETERMINED TYPES ARE IN THE CLASSIFICATION
YARDS.

25X9

25X1

25X1

PAO-TOU COMPLEX CH 4036N 11001E

NO MAJOR CHANGES IN COMPLEX SINCE [REDACTED]
[REDACTED] LIGHT SMOKE EMITTING FROM BLAST FURNACES
AND FROM THE THREE POWER PLANTS IS THE ONLY SIGN
OF INDUSTRIAL ACTIVITY. NUMBER AND TYPE OF RAIL
CARS CANNOT BE DETERMINED.

25X1

25X9

25X1

39.

TOP SECRET [REDACTED]

25X1
25X1

Index

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
25X1
25X1INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET NUMBER, OF ALL COMOR TARGETS OBSERVED DURING THE SCAN OF MISSION 1009-2. THE ROMAN NUMERAL UNDER THE OAK COLUMN INDICATES THE PART OF OAK 1009-2 IN WHICH THE TARGET WAS REPORTED.

TYURATAM MISSILE TEST CENTER	UR 4550N 06318E	II
SVOBODNY ICBM COMPLEX	UR 5146N 12807E	II
ITATKA ICBM COMPLEX	UR 5650N 08536E	II
SHADRINSK ICBM COMPLEX	UR 5608N 06340E	I
PERM ICBM COMPLEX	UR 5742N 05619E	II
TYUMEN ICBM COMPLEX	UR 5652N 06553E	I
YEDROVO ICBM COMPLEX	UR 5751N 03341E	II
GLADKAYA ICBM COMPLEX	UR 5605N 09213E	II
ZHANGIZ-TOBE ICBM COMPLEX	UR 4912N 08110E	II
MAZANKA MRBM LAUNCH SITE	UR 4454N 03420E	I
SLAVSK MRBM LAUNCH SITE 2	UR 5500N 02129E	I
GUSEV MRBM LAUNCH SITE 1	UR 5441N 02205E	I
YELSK MRBM LAUNCH SITE 1	UR 5142N 02912E	II
NEMAN MRBM LAUNCH SITE	UR 5501N 02211E	I
PETRIKOV MRBM LAUNCH SITE	UR 5210N 02834E	II
BAYRAM-ALI IRBM LAUNCH SITE	UR 3746N 06212E	I
SMORGON IRBM LAUNCH SITE 2	UR 5426N 02618E	I
REDKINO MRBM LAUNCH SITE	UR 5724N 02826E	I
SHIRVANSKAYA MRBM LAUNCH SITE	UR 4425N 03954E	I
SEMENOVKA IRBM LAUNCH SITE 2	UR 4753N 03057E	II
KESHENTSY MRBM LAUNCH SITE	UR 4900N 03013E	II
POSTAVY MRBM LAUNCH SITE 2	UR 5506N 02700E	I
UKA/PESCHANY MISSILE TRACKING STATION	UR 5756N 16201E	II
SARY-SHAGAN ANTIMISSILE TEST CENTER	UR 4602N 07334E	II
WU-WEI SUSPECT GM ACTIVITY	CH 3758N 10253E	II
EMBA MISSILE-ASSOCIATED INSTALLATION	UR 4835N 05804E	II
SHUANG-CHENG-TZU 350 NM IMPACT AREA	CH 4024N 09225E	II
SHUANG-CHENG-TZU 650 NM IMPACT AREA	CH 4041N 08600E	II
DZUNGARIAN SUSPECT MISSILE SUPPORT AREA	CH 4615N 08710E	II
KRASNOYARSK EXPLOSIVES PLANT ZLOBINO	UR 5602N 09303E	I
KRASNOYARSK ROCKET ENGINE TEST FAC	UR 5605N 09327E	I
PERM ROCKET ENGINE TEST FACILITY	UR 5801N 05634E	II
BIYSK, STATIC TEST FACILITY	UR 5229N 08507E	I
MAKINSK SUSPECT SSM AREA	UR 5234N 07026E	II
SEVERNYY SUSPECT SSM AREA	UR 6845N 06430E	II
ROMNY SUSPECT SSM AREA	UR 5044N 03328E	II
ALEYSK SUSPECT SSM AREA	UR 5229N 08247E	I
ZHDANOV SUSPECT ANTI-SATELLITE LNCH FAC	UR 4705N 03730E	I

25X1

25X1

40

TOP SECRET

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
ZSAI

25X1

KOMSOMOLSK SHIPYARD AMUR 199
 LENINGRAD PROBABLE AMM AREA
 BRATSK, SUSPECT ABM AREA
 CHOKURDAKH, SUSPECT ABM AREA
 ANGARSK AREA, SUSPECT AMM ACTIVITY
 CHEPELEVKA AIRFIELD
 UKRAINA AIRFIELD
 BARANOVICHI AIRFIELD
 MINSK/MACHULISHCHE AIRFIELD
 NORILSK AIRFIELD
 BELAYA AIRFIELD
 BYKHOV AIRFIELD
 PRILUKI AIRFIELD
 BELAYA TSERKOV AIRFIELD
 NEZHIN AIRFIELD
 GOMEL/PRIBYTKI AIRFIELD
 BOBRUYSK AIRFIELD
 SOLTSY AIRFIELD
 OSTROV/GOROKHOVKA AIRFIELD
 IRKUTSK AIRFIELD NORTHWEST
 WU-KUNG AIRFIELD
 PARNU AIRFIELD

UR 5033N 13702E I
 UR 5955N 03020E I
 UR 5654N 10030E II
 UR 7037N 14753E I
 UR 5253N 10315E I
 UR 4947N 03026E II
 UR 5110N 12826E II
 UR 5306N 02603E I
 UR 5347N 02734E I
 UR 6919N 08756E II
 UR 5254N 10335E I
 UR 5331N 03012E I
 UR 5034N 03219E II
 UR 4947N 03001E II
 UR 5105N 03152E II
 UR 5218N 03110E I
 UR 5306N 02912E I
 UR 5808N 03020E I
 UR 5718N 02826E I
 UR 5222N 10411E II
 CH 3417N 10815E II
 UR 5825N 02428E I

25X2

25X2

25X2

YEN-KUO HSIA, HYDRO POWER PLANT

CH 3601N 10315E I

HSIANG-HSIANG ARSENAL
 HSIANG-HSIANG, INDUSTRIAL INSTALLATION
 BALAKLAVA SUBMARINE BASE
 NIKOLAYEV SHIPYARD NOSENKO 444
 NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445
 KERCH NVL BASE & SHPYD KAMYSH BURUN 532
 SEVASTOPOL NVL BASE & SHPYD SEVMORZAVOD
 LENINGRAD SHIPYARD BALTIYSK/ORDZH 189
 LENINGRAD SHIPYARD ADMIRALTY 194
 LENINGRAD SHIPYARD SUDOMEKH 196
 LENINGRAD SHIPYARD ZHDANOV 190
 KHERSON SHIPYARD

CH 2750N 11240E II
 CH 2743N 11229E II
 UR 4430N 03336E I
 UR 4657N 03159E II
 UR 4659N 03201E II
 UR 4516N 03625E II
 UR 4436N 03332E I
 UR 5955N 03016E I
 UR 5955N 03016E I
 UR 5956N 03017E I
 UR 5952N 03014E I
 UR 4636N 03235E II

LAPICHI HF RDO RELAY & MF BROADCAST STN UR 5325N 02831E II

25X2

TOP SECRET

41

25X1

25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64

25X1
ZDA

25X1

SIMFEROPOL TRACKING & COMM CENTER	UR 4503N 03353E	I
TALSI, SUSPECT SATELLITE TRACKING STN	UR 5717N 02235E	II
EMBA MISSILE TRACKING FACILITY	UR 4836N 05809E	II
MING-SHUI POSS MISSILE TRACKING STATION	CH 4155N 09620E	I
TU-KO-MA-CHING ARTILLERY TESTING RANGE	CH 4051N 10941E	II
SHAN-SHEN-FU ARMY BARRACKS SOUTHEAST	CH 5010N 12712E	II
HSI-AN COMPLEX	CH 3417N 10857E	II
PAO-TOU COMPLEX	CH 4036N 11001E	II
NORILSK COMPLEX	UR 6920N 08812E	I

25X1

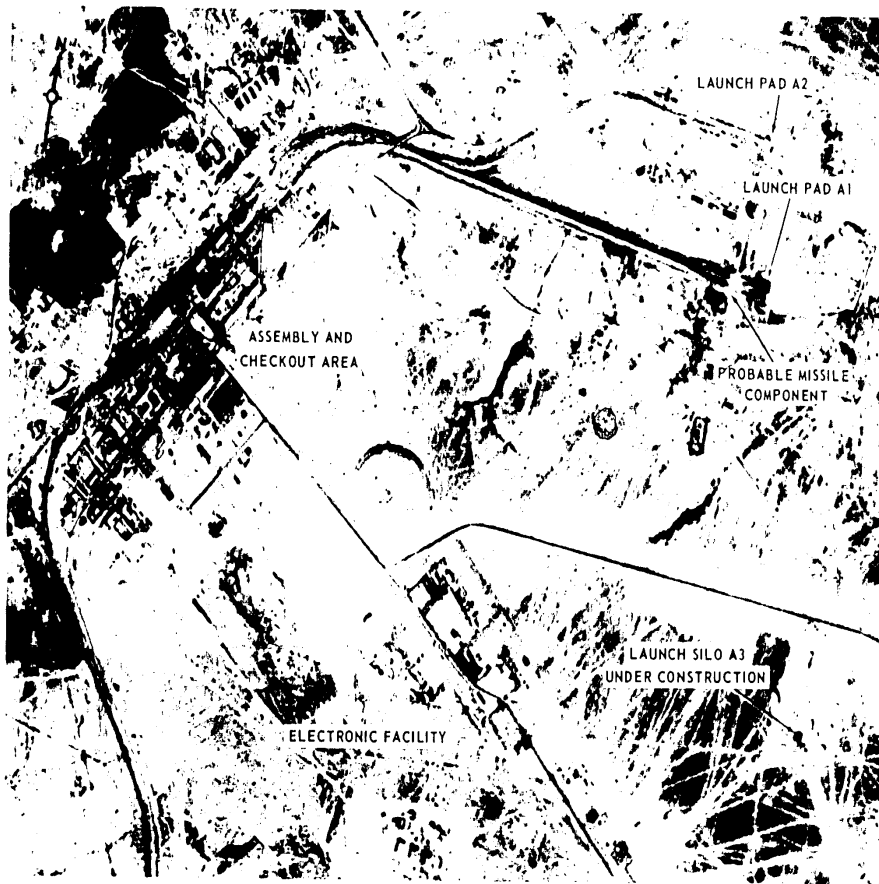
TOP SECRET

42

25X1

25X1

Attachments



NPIC J-3570 (8/64)

LAUNCH COMPLEX A, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

TOP SECRET

MISSION 1009-2, 9-12 AUGUST 1964

NPIC R-800 64
ATTACHMENT 1

25X1

25X1

25X1

25X1

TOP SECRET



NPIC J-3571 (8/64)

LAUNCH COMPLEX B, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 2

25X1

25X1

25X1
25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64

ATTACHMENT 3

25X1
ZNA



LAUNCH COMPLEX C, TYURATAM MISSILE TEST CENTER, USSR

NPIC J-3572 15 64

TOP SECRET

25X1

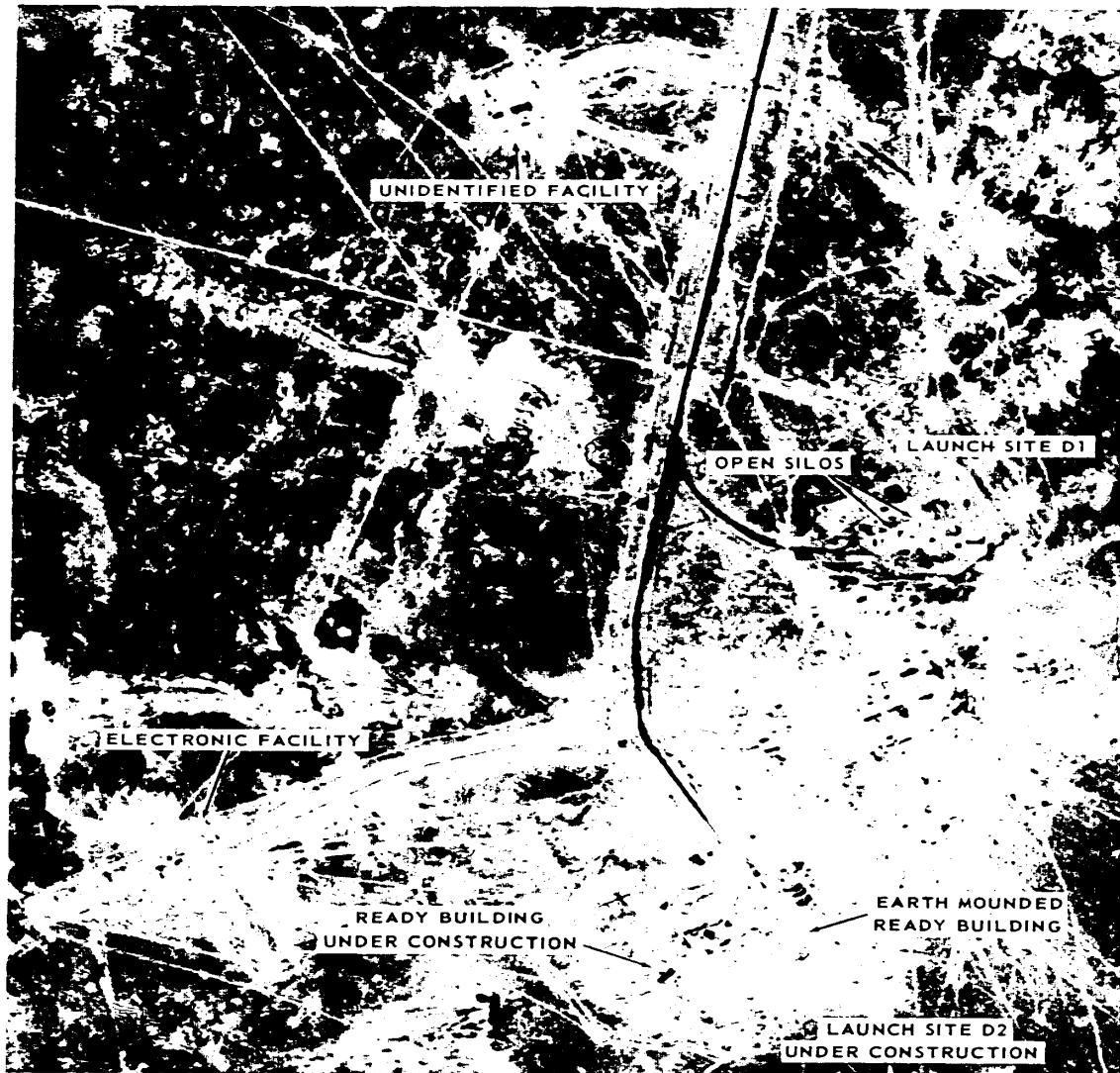
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TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 '64
ATTACHMENT 4

25X1
25X1



LAUNCH COMPLEX D, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

25X1
25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 '64
ATTACHMENT 5

25X1
25X1



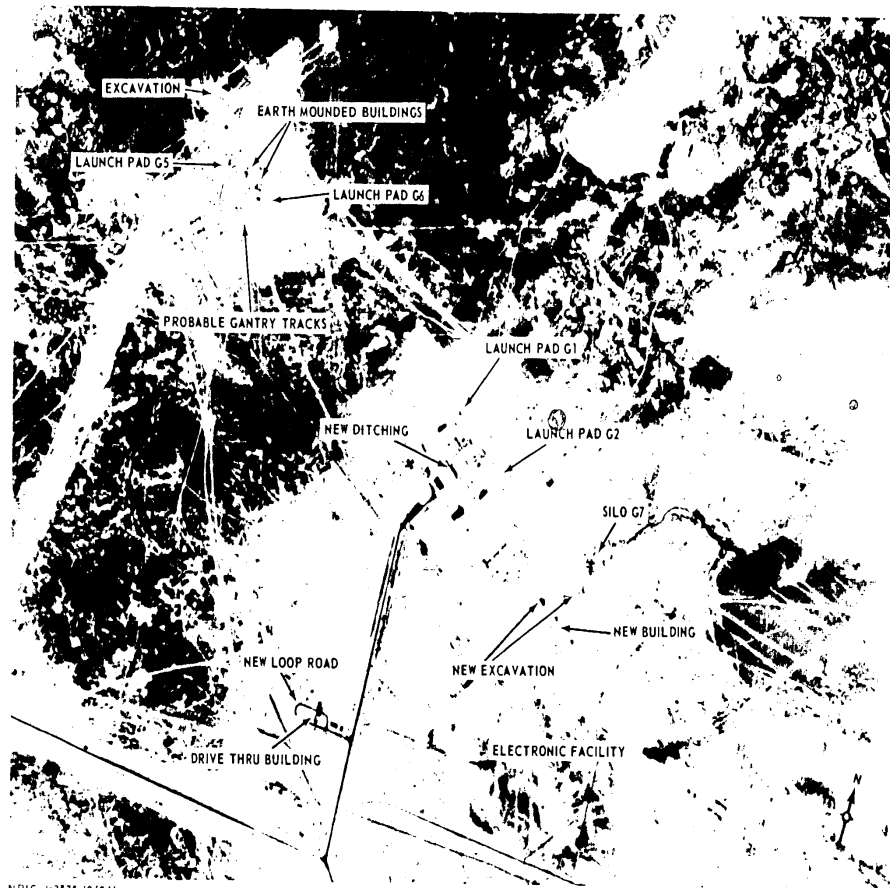
LAUNCH COMPLEX E, TYURATAM MISSILE TEST CENTER, USSR

NPIC J-3575 (8/64)

TOP SECRET

25X1
25X1

TOP SECRET



NPIC J-3576 (8/64)

LAUNCH COMPLEX G, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 6

25X1

25X1
25X1

25X1

25X1

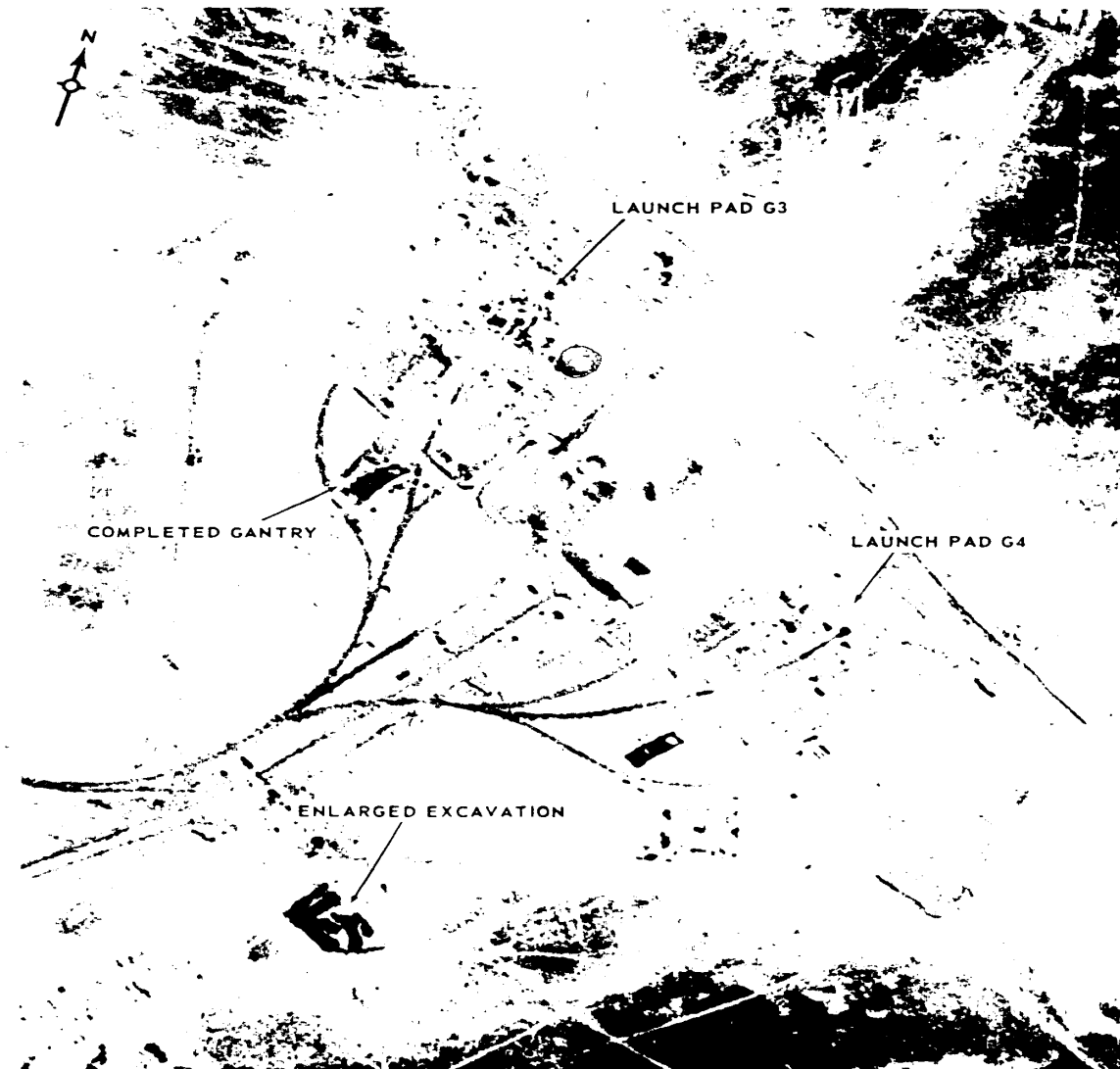
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MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64

ATTACHMENT 7

25X1
25X1
25X1



LAUNCH PADS G3 AND G4, LAUNCH COMPLEX G, TYURATAM, USSR

NPIC J-3577 18/64

TOP SECRET

25X1
25X1

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC/R-800/64
ATTACHMENT 8

25X1
25X1



PROBABLE LAUNCH PADS G8 AND G9, LAUNCH COMPLEX G, TYURATAM, USSR

NPIC J-3578 18/64

TOP SECRET

25X1
25X1

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TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 10

25X1
ZSAI



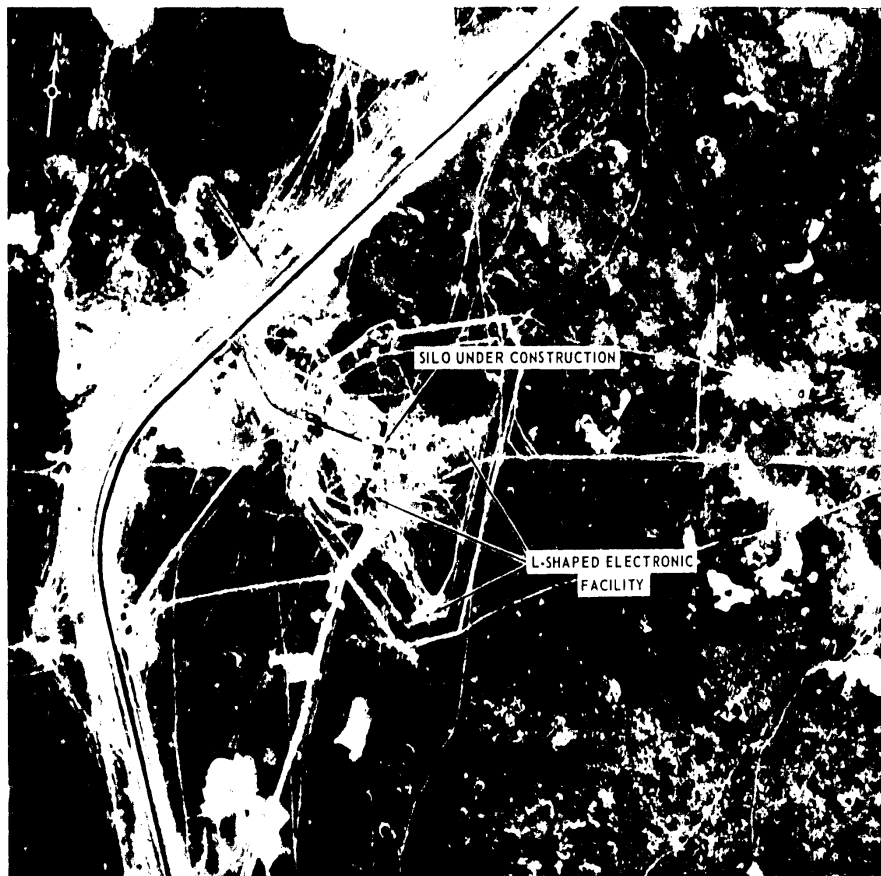
REVETTED STORAGE AREA, LAUNCH COMPLEX G, TYURATAM, USSR

NPIC 1009-2 64

TOP SECRET

25X1

25X1



NPIC J-3581 (8/64)

LAUNCH COMPLEX I, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 11

25X1

25X1

25X1
25X1

TOP SECRET



NPIC J-3582 (8/64)

COMPLEX J, TYURATAM MISSILE TEST CENTER, USSR

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

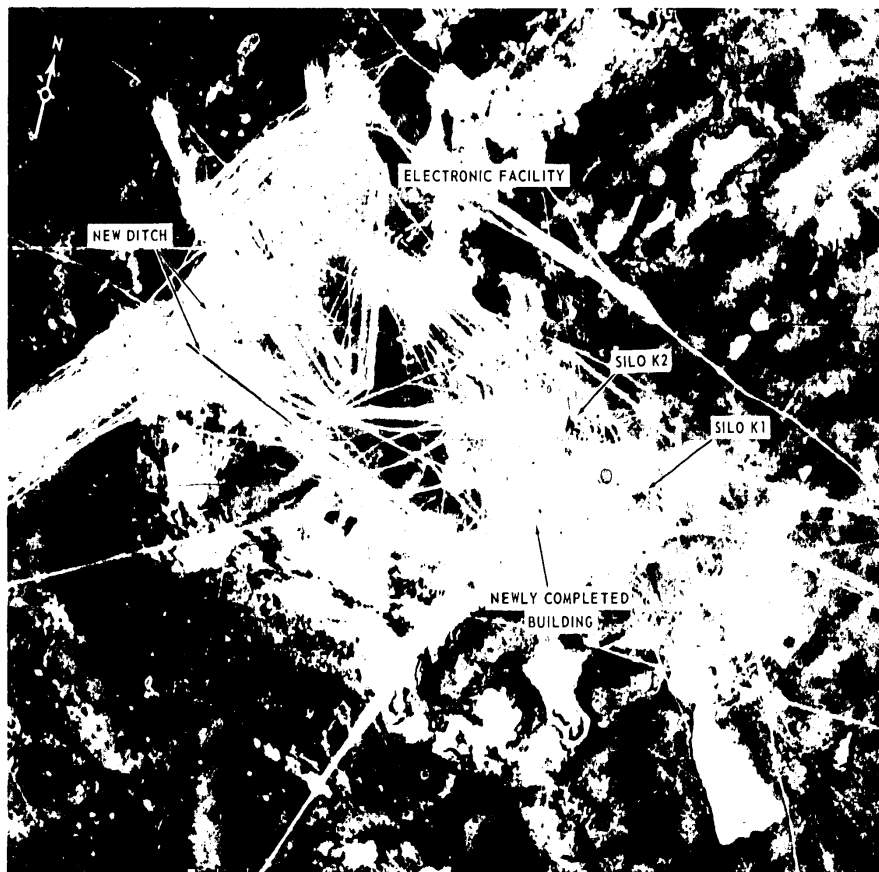
NPIC R-800 64
ATTACHMENT 12

25X1

25X1
25X1

25X1

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NPIC J-3553 18/64

LAUNCH COMPLEX K, TYURATAM MISSILE TEST CENTER, USSR

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MISSION 1009-2, 9-13 AUGUST 1964

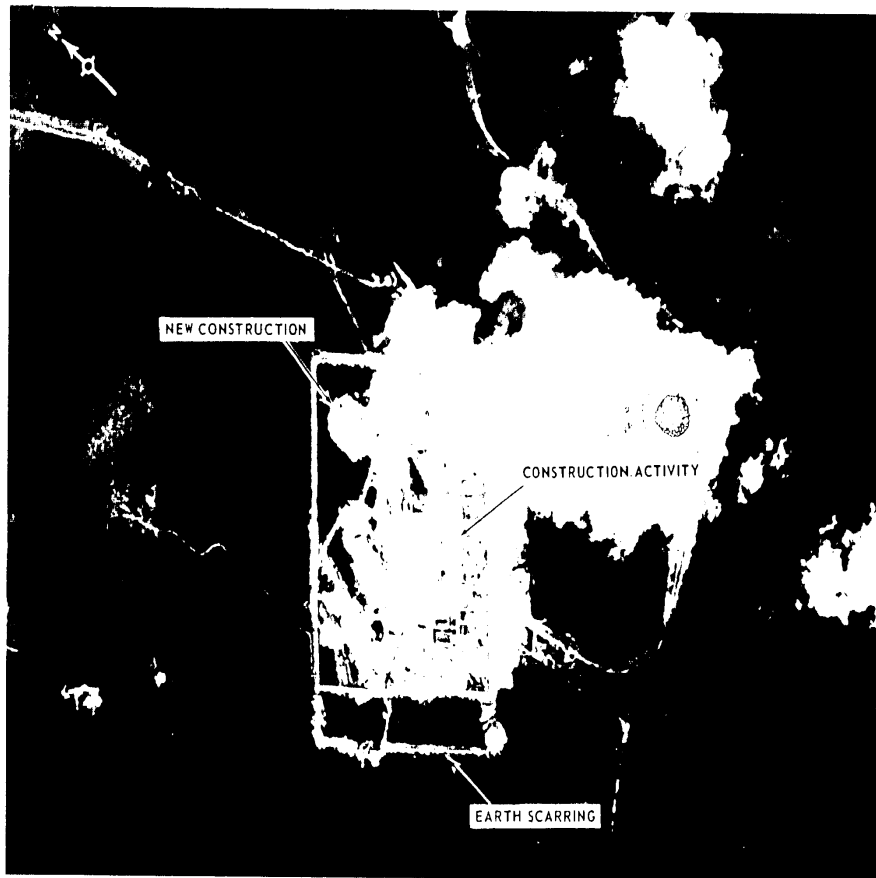
NPIC R-800 64
ATTACHMENT 13

25X1

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25X1



NPIC J-3584 (8/64)

ROCKET ENGINE TEST FACILITY, PERM, USSR

TOP SECRET

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MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 1A

25X1

25X1
25X1

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25X1

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NPIC J-3585 (8/64)

NIKOLAYEV SHIPYARD NOSENKO 444, USSR

TOP SECRET

TOP SECRET

MISSION 1009-2, 9-13 AUGUST 1964

NPIC R-800 64
ATTACHMENT 16

25X1

25X1
25X1

25X1

25X1